5"					
TTGACACCAG	ACCAACTGGT	AATGGTAGCG	ACCGGCGCTC	AGCTGGAATT	CCAAAAAATG
TAATGCACAC	TCCATTGCAT	TCAGCCCGCC	TCTCCTTAGT	CGCCGCCATG	ACGACCGCGT
CCACCTCGCA	GGTGCGCCAG	AACTACCACC	AGGACTCAGA	GGCCGCCATC	AACCGCCAGA
TCAACCTGGA	GCTCTACGCC	TCCTACGTTT	ACCTGTCCAT	GTCTTACTAC	TTTGACCGCG
ATGATGTGGC	TTTGAAGAAC	TTTGCCAAAT	ACTTTCTTCA	CCAATCTCAT	GAGGAGAGGG
AACATGCTGA	GAAACTGATG	AAGCTGCAGA	ACCAACGAGG	TGGCCGAATC	TTCCTTCAGG
ATATCAAGAA	ACCAGACTGT	GATGACTGGG	AGAGCGGGCT	GAATGCAATG	GAGTGTGCAT
TACATTTGGA	AAAAAATGTG	AATCAGTCAC	TACTGGAATT	CCCTTCTCCT	ATCTCTCCCA
GTCCTAGCTG	CTGGCATCAC	TATACTACTA	ACAGACCGCA	ACCTCAACAC	CACCTTCTTC
GACCCCGCCG	GAGGAAGAGA	CCCCATTCTA	TACCAACACC	TATTCTGATT	TTTCGGTCAC
COTGAAGTTT	ATATTCTTAT	CCTACCAGGC	TTCGGAATAA	TCTCCCATAT	TGTAACTTAC
TACTCCGGAA	ATCGCTGTCG	CCTAACCGCT	AACATTACTG	CAGGCCACCT	ACTCATGCAC
CTAATTGGAA	GCGCCACCCT	AGCAATATCA	ACCATTAACC	TTCCCTCTAC	ACTTATCATC
TTCACAATTC	TAATTCTACT	GACTATCCTA	GAAATCGCTG	TCGCCTTAAT	CCAAGCCTAC
GTTTTCACAC	TTCTAGTAAG	CCTCTACCTG	CACGACAACA	САТААААААА	A 3"

FIG. 1

				CLONE	p47			GG	GGGACGG <i>I</i>	ACCCGG
CGCTCG	TTCCCCAC	CCCGGCC	GCCGCCC	ATAGCCAC CLONE		TCAC		<u>TT</u>	<u>GACACC</u>	
		CTCGGACT								
		ACCGCCG(
ATG ATG	ACG	ACC	GCG	TCC	ACC	TCG	CAG	GTG	CGC	CAG
	ACG	ACC	GCG	TCC	ACC	TCG	CAG	GTG	CGC	CAG
AAC	TAC	CAC	CAG	GAC	TCA	GAG	GCC	GCC	ATC	AAC
AAC	TAC	CAC	CAG	GAC	TCA	GAG	GCC	GCC	ATC	AAC
CGC	CAG	ATC	AAC	CTG	GAG	CTC	TAC	GCC	TCC	TAC
CGC	CAG	ATC	AAC	CTG	GAG	CTC	TAC	GCC	TCC	TAC
GTT	TAC	CTG	TCC	ATG	TCT	TAC	TAC	TTT	GAC	CGC
GTT	TAC	CTG	TCC	ATG	TCT	TAC	TAC	TTT	GAC	CGC
GAT	GAT	GTG	GCT	TTG	AAG	AAC	TTT	GCC	aaa	TAC
GAT	GAT	GTG	GCT	TTG	AAG	AAC	TTT	GCC	aaa	TAC
TTT	CTT	CAC	CAA	TCT	CAT	GAG	GAG	AGG	GAA	CAT
TTT	CTT	CAC	CAA	TCT	CAT	GAG	GAG	AGG	GAA	CAT
GCT	GAG	AAA	CTG	ATG	aag	CTG	CAG	AAC	CAA	CGA
GCT	GAG	AAA	CTG	ATG	aag	CTG	CAG	AAC	CAA	CGA
GGT	GGC	CGA	ATC	TTC	CTT	CAG	GAT	ATC	AAG	AAA
GGT	GGC	CGA	ATC	TTC	CTT	CAG	GAT	ATC	AAG	AAA
CCA	GAC	TGT	GAT	GAC	TGG	GAG	AGC	GGG	CTG	AAT
CCA	GAC	TGT	GAT	GAC	TGG	GAG	AGC	GGG	CTG	AAT
GCA	ATG	GAG	TGT	GCA	TTA	CAT	TTG	GAA	aaa	AAT
GCA	ATG	GAG	TGT	GCA	TTA	CAT	TTG	GAA	aaa	AAT
GTG	AAT	CAG	TCA	CTA	CTG	gaa	CTG	CAC	AAA	CTG
GTG	AAT	CAG	TCA	CTA	CTG	gaa	TTC	CCT	TCT	CCT
GCC	ACT	GAC	AAA	AAT	GAC	CCC	CAT	TTG	TGT	GAC
ATC	TCT	CCC	AGT	CCT	AGC	TGC	TGG	CAT	CAC	TAT

FIG. 2A

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TTC	ATT	GAG	ACA	CAT	TAC	CTG	AAT	GAG	CAG	GTG
ACT	ACT	AAC	AGA	CCG	CAA	CCT	CAA	CAC	CAC	_CTT
AAA	GCC	ATC	AAA	GAA	TTG	GGT	GAC	CAC	GTG	ACC
CTT	CGA	CCC	CGC	CGG	AGG	AAG	AGA	CCC	CAT	TCT
AAC	TTG	CGC	AAG	ATG	GGA	GCG	CCC	GAA	TCT	GGC
ATA	CCA	ACA	CCT	ATT	CTG	ATT	TTT	CGG	TCA	CCC
TTG	GCG	GAA	TAT	CTC	TTT	GAC	AAG	CAC	ACC	CTG
TGA	AGTT'	TATATT(CTTATC	CTACCA	GGCTTC	GGAATA	ATCTCC	CATATT		
GGA	GAC	AGT	GAT	AAT	GAA	AGC	TAA	GCCT	CGGGCT	TTAA
GTAA	CTTACT	ACTCCG(GAAATC	GCTGTC	GCCTAA	CCGCTA	ACATTA	CTGC		
								-		
TCCC	ATAGCC	GTGGGG'	TGACTT(CCTGG'	TCACCA	AGGCAG	TGCATG	CAT		
AGGC	CACCTA	CTCATG	CACCTA	ATTGGA	AGCGCC	ACCCTA	GCAATA	TCA		
GCAT	GTTGGG	GTTTCC'	TTTACC'	TTTTCT.	ATAAGT'	TGTACC.	AAAACA	TCCAC		
ACCA	TTAACC	TTCCCT	CTACAC'	TTATCA	TCTTCA	CAATTC	TAATTC	TACTG		
TTAA	GTTCTT	TGATTT	GTACCA'	TTCCTT	CAAATA	AAGAAA	TTTGGT	ACCCA		
ACTA	TCCTAG	AAATCG(CTGTCG	CCTTAA	TCCAAG	CCTACG	TTTTCA	CACT		
AAAA	AAAA									
TCTA	GTAAGC	CTCTAC	CTGCAC	GACAAC.	ACATAA	AAAAA				

FIG. 2A CONT.

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TTGACACCAGACCAACTGGTAATGGTAGCGACCGGCGCTCAGCTGGAATTCCAAAAAATGT										
	CACACTO							1		-1-
met ATG	thr ∐ACG	thr ACC	ala GCG	ser TCC	thr ACC	ser TCG	gln CAG	val GTG	arg CGC	gln CAG
RIG	ACG	ACC	GCG	100	ACC	100	CAG	919	CGC	CAG
asn	tyr	his	gln	asp	ser	qlu	ala	ala	ile	asn
AAC	TAC	CAC	CAG	GAC	TCA	GAG	GCC	GCC	ATC	AAC
	_				_					
arg	gln	ile	asn	leu	glu	leu	tyr	ala	ser	tyr
CGC	CAG	ATC	AAC	CTG	GAG	CTC	TAC	GCC	TCC	TAC
val	tyr	leu	ser	met	ser	tyr	tyr	phe	asp	arg
GTT	TAC	CTG	TCC	ATG	TCT	TAC	TAC	TTT	GAC	CGC
011	1110	010	100		101	1110	1110		0.10	000
asp	asp	val	ala	leu	lys	asn	phe	ala	lys	tyr
GAT	GAT	GTG	GCT	TTG	AĀG	AAC	TTT	GCC	AĀA	TĀC
,	,	, ,	,		, .	,	,		,	, .
phe	leu	his	gln	ser	his	glu	glu	arg	glu	his
TTT	CTT	CAC	CAA	TCT	CAT	GAG	GAG	AGG	GAA	CAT
ala	glu	lys	leu	met	lys	leu	gln	asn	gln	arq
GCT	GAG	AAA	CTG	ATG	AAG	CTG	CAG	AAC	CAA	CGA
						***	00		V	00
gly	gly	arg	ile	phe	leu	gln	asp	ile	lys	lys
GGT	ĞĞČ	CGĀ	ATC	TTC	CTT	ČAG	GAT	ATC	AĀG	AĀA
						,		,	,	
pro	asp	CYS	asp	asp	trp	glu	ser	gly	leu	asn
CCA	GAC	TGT	GAT	GAC	TGG	GAG	AGC	GGG	CTG	AAT
ala	met	glu	cys	ala	leu	his	leu	glu	lys	asn
GCA	ATG	GAG	TGT	GCA	TTA	CAT	TTG	GAA	AAA	AAT
val	asn	gln	ser	leu	leu	glu	phe	pro	ser	pro
GTG	AAT	CAG	TCA	CTA	CTG	GAA	TTC	CCT	TCT	CCT
ile	cor	nro	00*	nro	202	0110	trn	hio	hio	+
ATC	ser TCT	pro CCC	ser AGT	pro CCT	ser AGC	cys TGC	trp TGG	his <u>CAT</u>	his CAC	tyr TAT
1110			1101		1100	100	100	Oni	CHO	1111
thr	thr	asn	arg	pro	gln	pro	gln	his	his	leu
<u>ACT</u>	ACT	AAC	AGÁ	CCG	ĆAA	CCT	<u>ĆAA</u>	CAC	CAC	CTT
,						_				
leu	arg	pro	arg	arg	arg	lys	arg	pro	his	ser
CTT	CGA	CCC	CGC	CGG	AGG	_AAG	AGA	CCC	CAT	TCT
ile	pro	thr	pro	ile	leu	ile	phe	arg	ser	pro
ATA	CCA	ACA	CCT	ATT	CTG	ATT	TTT	CGG	TCA	CCC
TGA		TATATTO		TACCAC	GCTTC	GAATAA		ATATTO	TAACTI	CAC
	CCGGAAA									
	TTGGAAC									
	CAATTC								AAGCCT <i>l</i>	IC
GTTTTCACACTTGTAGTAAGCCTCTACCTGCACGACAACACATAAAAAAAA										

1061 TTGACACCAG	ACCAACTGGT	<u>AATG</u> GTAGCG	. BNC ACCG <u>GCGCTC</u>	AGCTGGAATT	CCAAAAAATG
NCS TAATGCACAC	TCCATTGCAT	TCAGCCCGCC	TCTCCTTAGT	CGCCGCC <u>ATG</u>	ACGACCGCGT
CCACCTCGCA	GGTGCGCCAG	AACTACCACC	X1 AGGACTCAGA	GGCCGCCATIG	AACCGCCAGA
TCAACCTGGA	GCTCTACGCC	TCCTACGTTT	ACCTGTCCAT	GTCTTACTAC	17 TTT <u>GACCGCG</u>
17 ATGATGTGGC	TTTGAAGAAC	TTTGCCAAAT	ACTTTCTTCA	CCAATCTCAT	GAGGAGAGGG
AACATGCTGA	GAAACTGATG	AAGCTGCAGA	ACCAACGAGG	TGGCCGAATC	TTCCTTCAGG
ATATCAAGAA	ACCAGACTGT	GATGACTGGG	AGAG <u>CGGGCT</u>	2.1 GAATGCAATG	GAGTGTGCAT
TACATTTGGA	AAAAAATGTG	AATCA <u>GTCAC</u>	ECOF TACTGGAATT	CCCTTCTCCT	ATCTCTCCCA
GTCCTAGCTG	CTGGCATCAC	TATACTACTA	ACAGACCGCA	ACCTCAACAC	CACCTTCTTC
GACCCCGCCG	GAGGAAGAGA	CCCCATTCTA	TACCAACACC	TATTCTGATT	TTTCGGTCAC
CCTGAAGTTT	ATATTCTTAT	CCTACCAGGC	TTCGGAATAA	TCTCCCATAT	TGTAACTTAC
TACTCOGGAA	SPF ATCGCTGTCG	<u>CCTAACC</u> GCT	AACATTACTG	CAGGCCACCT	ACTCATGCAC
CTAATTG <u>GAA</u>	728 GCGCCACCCT	AGCAATATCA	ACCATTAACC	TTCCCTCTAC	767 ACTTATCATC
767 TTCACAATTC	TAATTCTACT	GACTATCCTA	16 GAAATCGCTG	TCGCCTTAAT	CCAAGCCTAC
GTTTTCACAC	TTCTAGTAAG	CCTCTACCTG	CACGACAACA	САТААААААА	A

FIG. 7

TTGACACCAG	ACCAACTGGT	AATGGTAGCG	ACCGGCGCTC	AGCTGGAATT	CCAAAAAATG
TAATGCACAC	TCCATTGCAT	TCAGCCCGCC	TCTCCTTAGT	CGCCGCCATG	ACGACCGCGT
CCACCTCGCA	GGTGCGCCAG	AACTACCACC	AGGACTCAGA	GGCCGCCATC	AACCGCCAGA
TCAACCTGGA	GCTCTACGCC	TCCTACGTTT	ACCTGTCCAT	GTCTTACTAC	TTTGACCGCG
ATGATGTGGC	TTTGAAGAAC	TTTGCCAAAT	ACTTTCTTCA	CCAATCTCAT	GAGGAGAGGG
AACATGCTGA	GAAACTGATG	Pst1 AAG <u>CTGCAGA</u>	ACCAACGAGG	TGGCCGAATC	TTCCTTCAGG
ATATCAAGAA	ACCAGACTGT	GATGACTGGG	AGAGCGGGCT	GAATGCAATG	GAGTGTGCAT
TACATTTGGA	AAAAAATGTG	AATCAGTCAC	ECOR1 TAC <u>TGGAAT</u> T	CCCTTCTCCT	ATCTCTCCCA
GTCCTAGCTG	CTGGCATCAC	ТАТАСТАСТА	ACAGACCGCA	ACCTCAACAC	CACCTTCTTC
GACCCCGCCG	GAGGAAGAGA	CCCCATTCTA	TACCAACACC	TATTCTGATT	TTTCGGTCAC
CC <u>TGA</u> AGTTT	ATATTCTTAT	CCTACCAGGC	TTCGGAATAA	TCTCCCATAT	TGTAACTTAC
TACTCCGGAA	ATCGCTGTCG	CCTAACCGCT	AACATTACTG	CAGGCCACCT	ACTCATGCAC
CTAATTGGAA	GCGCCACCCT	AGCAATATCA	ACCATTAACC	TTCCCTCTAC	ACTTATCATC
TTCACAATTC	TAATTCTACT	GACTATCCTA	GAAATCGCTG	TCGCCTTAAT	CCAAGCCTAC
GTTTTCACAC	TTCTAGTAAG	CCTCTACCTG	CACGACAACA	САТААААААА	Α

FIG. 8